

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

07 JUL 2004

applicants or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCTAPEA/416)
ALFB/P27771PC International application No.	International filing date (day/mon	th/year) Priority date (day/month/year) 08.01.2002
PCT/SR 03/00044	08.01.2003	
International Patent Classification (IPC) or F42B33/06, F42B33/06	both national classification and IPC	
Applicant ALFORD, Sidney C.		
This international preliminary ex Authority and is transmitted to t	camination report has been prep he applicant according to Article	ared by this international Preliminary Examining 36.
This was not be also second	tion 607 of the Administrative In	s of the description, claims and/or drawings which have
3. This report contains indication       Basis of the opinion	ns relating to the following items:	
II Priority III Non-establishmet IV Lack of unity of in	nt of opinion with regard to novel	ity, inventive step and industrial applicability
V ⊠ Reasoned stateπ citations and exp	ient under Rule 66.2(a)(ii) with re lanations supporting such staten	egard to novelty, inventive step or industrial applicability; nent
VI Certain documen	the international application	Option
V(II □ Certain observat	ions on the international applicat	
Date of submission of the demand	D	eate of completion of this report
08.07.2003	C	08.06.2004
Name and mailing address of the Interpretationary examining authority:	amadona	Authorized Officer
European Patent Offic D-80298 Munich Tel. +49 89 2399 - 0 T Fax: +49 89 2399 - 44	x: 523658 epmu d	Ziegler, H-J Telephone No. +49 89 2399-2884

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/00044

1. E	tasis	of the	report
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With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

		iption, Pages	as originally filed			
	1-34					
	Clain	ns, Numbers				
	1-8		as originally filed			
	9-15		received on 19,05.2004 with letter of 18.05.2004			
	Drawings, Sheets		as originally filed			
	1/8-8/8		with a standard to this Authority in the			
2.	With regard to the language, all		pe, all the elements marked above were available or furnished to this Authority in the mational application was filed, unless otherwise indicated under this item.			
	11 felm made		the automiched to this Authority in title following language			
	These elements were available of furnish		slation furnished for the purposes of the international search (under Rule 23.1(b)).			
		the language of a tran	station furnished to the purposes of international preliminary examination (under			
		the language of public	pation of the international application (under realiminary examination (under uslation furnished for the purposes of international preliminary examination (under uslation furnished for the purposes of international preliminary examination (under uslation furnished for the purposes of international preliminary examination (under uslation furnished for the purposes of international preliminary examination (under uslation furnished for the purposes of international preliminary examination (under uslation furnished for the purposes of international preliminary examination (under uslation furnished for the purposes of international preliminary examination (under uslation furnished for the purposes).			
	the language of a translation furnished for the people and the language of a translation furnished for the language of the lan					
Rule 55.2 and/or 55.3).  3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
	the distance of the motional application in written form.					
		fined together with the	e International application in computer reasons			
		- Landauboonio	thy to this Authority in white in letting			
		furnished subsequer	ntly to this Authority in computer readable form.			
The statement that the subsequently furnished a furnished		he subsequently furnished whitehold				
		The statement that the listing has been fun	the information recorded in company requirements the information recorded in company requirements.			
	4. The amendments have resulted in the cancellation of:					
		the description,	pages:			
		the claims,	Nos.:			
		] the drawings,	sheets:			
Form PCTAPEA/409 (January 2004)						

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5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filled (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims
No: Claims

Inventive step (IS)

Yes: Claims
No: Claims

1-15

No: Claims

1-15

No: Claims

1-15

No: Claims

1-15

2. Citations and explanations

see separate sheet

### INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

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Reasoned statement under Article 35(2) with regard to novelty, inventive step or Industrial applicability; citations and explanations supporting such statement

US-B-5936184 (D1) which is considered to represent the closest prior art shows a disruptor for constituting an explosive charge, the disruptor comprising a container having a projectile and explosive material, the container comprising an enclosure for holding explosive material, said enclosure having a wall.

The problem is to adapt the energy of the disruptive jet to the type of munition easily and precisely.

The solution according to the invention is to make the wall locatable at any of a number of positions.

This solution is not known from the prior art.

In D1 itself the jet power is controlled by different liner materials or chemical additives and the amount of explosive, but there is no such locatable wall defining the enclosure filled with explosive.

DE 3623240 adapts the power by externally mounted parts.

DE 2555649 uses a combination of liner material and liner angle for that purpose, however the wall is always at the same place, at the end of the container.

Hence there is no anticipation of the subject matter of claim 1.

Claims 2-10 are dependent on claim 1 and therefore also fulfil the requirements of Art 33(1), 33(2) and 33(3) PCT.

Claim 11 also includes the novel and inventive features of claim 1.

Claims 12 and 14 have been amended to include the inventive features of "placing/locating a wall of the enclosure at any of a number of locatable positions" like in claim 1.

D1 (fig. 2) shows a disruptor comprising a container having a projectile (37) and an

Form PCT/Separate Sheet/409 (Sheet 1) (EPO-April 1997)

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enclosure (33) for holding explosive material (35). The skilled person knows that measuring out a quantity of explosive material is absolutely necessary to have predictable results in the operation. Then the explosive is placed in the enclosure. D1 is silent about the manufacture of the charge. In the present application(p.4, l.24), two ways of filling the charge are described as general knowledge. One consists of placing the liner on the prefilled charge (enclosure and explosive). In the present application however, explosive and liner are placed in the disruptor at the same time, and not in sequence, as required by amended claim 12. Thus the method of claim 12 is novel.

No combination of the prior art leads to subject matter of the claim (see above).

In amended claim 14, another method is claimed. Here, first the wall is placed in the enclosure. Then the explosive is filled in until the enclosure is filled. This method is also general knowledge according to the description. D2 (DE2555649) shows a disruptor. Due to the construction of the liner end of this disruptor here only this sequence is possible. The liner cannot be inserted into the enclosure. Best seen in figure 3, there is a corner at the liner end of the tube which prevents the insertion of the liner after filling the tube. However the liner is always placed at the same position in the disruptor. Therefore the subject matter of claim 14 is novel over the prior art.

The construction of the disruptor excludes more or less locating the wall at another position. In consequence the invention as defined in claim 14 is non-obvious.

Hence also the amended claims 12 and 14 and their dependent claims 13 and 15 fulfil the requirements of the PCT.

The invention is industrially applicable.